

POWER OF ATTORNEY BY ASSIGNEE AND CERTIFICATE UNDER 37 CFR § 3.73(b)

To the Commissioner of Patents and Trademarks:

I, the undersigned, acting on behalf of the Assignee of an application for Letters Patent entitled EXTENDED HUMAN HEMATOPOIESIS IN A HETEROLOGOUS HOST, and having the following-named inventor(s): Hideto Kaneshima, Reiko Namikawa and Joseph M. Mc Cune, the specification of which filed on February 13, 1992 under serial No. 07/836,195, appoint the attorneys and agents (as representatives), listed below, to prosecute this application and transact all business related to this application with the Patent and Trademark Office. This appointment to be to the exclusion of the inventor(s) and their attorney(s) and agent(s) in accordance with the provisions of 37 CFR §3.71.

The appointed representatives are: Borovian, Joseph J., Reg. No. 26,631; Dohmann, George R., Reg. No. 33,593; Ferraro, Gregory D., Reg. No. 36,134; Furman, Diane E., Reg. No. 31,104; Glynn, Michael W., Reg. No. 27,285; Gruenfeld, Norbert, Reg. No. 30,061; Hehman, Mary K., Reg. No. 39,206; Hoxie, Thomas, Reg. No. 32,993; Karny, Geoffrey, Reg. No. 31,382; Kassenoff, Melvyn M., Reg. No. 26,389; Lee, Michael U., Reg. No. 35,240; Kalinchak, Steve, Reg. No. 38,747; Loeschorn, Carol A., Reg. No. 35,590; Lopez, Gabriel, Reg. No. 28,440; Mathias, Marla J., Reg. No. 32,663; McCormack, Myra, Reg. No. 36,602; Meece, R. Scott, Reg. No. 34,675; Meigs, J. Timothy, Reg. No. 38,241; Morris, Michael P., Reg. No. 34,513; Pace, Gary M., Reg. No. 40,403; Park, Ellen K., Reg. No. 34,055; Peabody, John, Reg. No. 41,440; Pfeiffer, Hesna J., Reg. No. 22,640; Stults, Larry W., Reg. No. 34,025; Teoli, William A., Jr., Reg. No. 33,104; Wissing, Kent, Reg. No. 34,757; Shaw, Melissa, Reg. No. 38,301; Marcus-Wyner, Lynn, Reg. No. 34,869, all affiliated with Systemix, Inc., a Novartis Company, and Karl Bozicevic, Reg. 28,807; Dianne E. Reed, Reg. 31,292; Bret E. Field, Reg. 37,620; Pamela J. Sherwood, Reg. 36,677; Carol L. Francis, Reg. 36,513; David W. Maher, Reg. 40,077; Dianna L. DeVore, Reg. 42,484; and Michael A. Glenn, Reg. 30,176, all affiliated with Bozicevic & Reed LLP.

If the affiliation of any of these representatives is severed from their respective organization, such representative's appointment and all powers derived from this appointment shall terminate on the date of the severance.

Direct all telephone calls to Melissa Shaw at (650) 813-4153.

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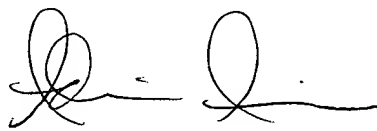
In accordance with 37 CFR §3.73(b) I hereby certify that I am empowered to act on behalf of the Assignee of the above-identified patent application. The original Assignment is concurrently being forwarded to the Assignment Branch of the U.S. Patent Office for recordation.

I declare that these statements are made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Title 18, United States Code §1001 and that such willful false statements may jeopardize the validity of the above referenced application or any patent resulting from that application.

Date:

Oct. 14, 1998

Systemix, Inc., a Novartis Company



Name: Adrain Arima

Title: General Counsel